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(54) Title: MICROCAPSULES WITH MODIFIED RELEASE OF ACTIVE PRINCIPLES WITH LOW SOLUBILITY FOR ORAL DELIVERY

(54) Titre: MICROCAPSULES A LIBERATION MODIFIEE DE PRINCIPES ACTIFS PEU SOLUBLES POUR ADMINISTRATION PER OS

(57) Abstract: The invention concerns microcapsules for reliably modified release and adapted to industrial reproduction of an active principle hardly water-soluble, *other than anti-hyperglycemia agents*. Each of said microcapsules comprises a core of hardly soluble active principle and a coating film applied on the core. Their mean diameter is less than 1000 microns. The coating film contains a film-forming polymer (P1) insoluble in gastrointestinal tract fluids, a water-soluble polymer (P2), a plasticizer (PL), and optionally a lubricating surfactant (TA). Said coating film represents at least 4 % p/p of dry matter of their total weight, and its components P1, P2, PL satisfy the following characteristics: dry weight mass fraction of P1 relative to the total coating weight ranging between 40 and 90 %; dry matter weight fraction of PL/P1+P2 ranging between 15 and 60 %; dry matter weight fraction of PL/P1+PL ranging between 1 and 30 %. The invention also concerns the uses of said microcapsules in galenic formulation.

(57) Abrégé : La présente invention concerne des microcapsules permettant la libération modifiée de façon fiable et industriellement reproductible d'un principe (PA) peu soluble dans l'eau, à l'exclusion des anti-hyperglycémifiants. Chacune de ces microcapsules comprend un coeur de PA peu soluble et une pellicule d'enrobage appliquée sur le coeur. Leur diamètre moyen est inférieur à 1000 microns. La pellicule d'enrobage contient un polymère filmogène (P1) insoluble dans les liquides du tractus gastro-intestinal: un polymère hydrosoluble (P2); un plastifiant (PL); et éventuellement un agent tensioactif (TA) lubrifiant. Cette pellicule d'enrobage représente au moins 4 % p/p sec de leur masse totale, et ses composants P1, P2, PL satisfont aux caractéristiques suivantes : fraction massique en poids sec de P1 par rapport à la masse totale de l'enrobage, comprise entre 40 et 90%; fraction massique en poids sec P2/P1+P2 comprise entre 15 et 60 %; fraction massique en poids sec PL/P1+PL comprise entre 1 et 30 %. L'invention concerne aussi les applications desdites microcapsules en galénique.

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